## **FIPS 140-1 Validation Certificate**



The National Institute of Standards and Technology of the United States of America





The Communications Security
Establishment of the Government
of Canada

Certificate No. 358

The National Institute of Standards and Technology, as the United States FIPS 140-1 Cryptographic Module Validation Authority; and the Communications Security Establishment, as the Canadian FIPS 140-1 Cryptographic Module Validation Authority; hereby validate the FIPS 140-1 testing results of the Cryptographic Module identified as:

## AirFortress™ Client Cryptographic Module by Fortress Technologies, Inc.

(When operated in FIPS mode)

In accordance with the Derived Test Requirements for FIPS 140-1, Security Requirements for Cryptographic Modules. FIPS 140-1 specifies the security requirements that are to be satisfied by a cryptographic module utilized within a security system protecting Sensitive But Unclassified Information (United States) or Designated Information (Canada) within computer and communications systems (including voice systems).

Products which use the above identified cryptographic module may be labeled as complying with the requirements of FIPS 140-1 so long as the product, throughout its life cycle, continues to use the validated version of the cryptographic module as specified in this certificate. The validation report contains additional details concerning test results. No reliability test has been performed and no warranty of the products by both agencies is either expressed or implied.

This certificate includes details on the scope of conformance and validation authority signatures on the reverse.

FIPS 140-1 provides four increasing, qualitative levels of security: Level 1, Level 2, Level 3, and Level 4. These levels are intended to cover the wide range and potential applications and environments in which cryptographic modules may be employed. The security requirements cover eleven areas related to the secure design and implementation of a cryptographic module. The scope of conformance achieved by the cryptographic modules as tested in the product identified as:

## AirFortress™ Client Cryptographic Module by Fortress Technologies, Inc. (Version 2.4.0; Software)

	(Ver	sion 2.4.0; Software)		
and tested by the Cryptographic Modis as follows:	ule Testing accredited lab	poratory: <u>COACT Cafe Laboratory, NVLAP LAB C</u>	ODE 200416-0	
Cryptographic Module Design:	Level 1	Module Interfaces:	Level 1	
Roles and Services:	Level 2	Finite State Machine Model:	Level 1	
Physical Security: (Multi-Chip Standalone)	Level 1	Software Security:	Level 3	
EMI / EMC:	Level 1	Self Tests:	Level 1	
Key Management:	Level 1			
Operating System Security:	Level 1	is met when used in the following configuration(s): Windows XP Pro SP1, Windows 2000 SP2, Windows NT 4.0 SP2, Windows 98 2 <sup>nd</sup> edition, Windows CE 3.0, PalmOS 4.1, MS DOS 6.20 (single user mode)		
The following FIPS approved Cryptog	raphic Algorithms are use	ed: Triple-DES (Cert. #19); SHA-1 (Cert. #34); DE: HMAC-SHA-1 (Cert. #34, vendor affirmed)	S (Cert. #23); AES (Cert. #14);	
The Cryptographic module also conta	ins the following non-FIP	S approved algorithms: Diffie-Hellman (key agre	ement)	
	Overall I	Level Achieved: 1		
Signed on behalf of the Government of the United States		// -/ /.	Signed on behalf of the Government of Canada	
Signature:		Signature:		
Dated: 26 Down 2003		Dated: 19 Nov	Dated: 19 Novos	
Chief, Computer Security Division National Institute of Standards and Technology		· · · · · · · · · · · · · · · · · · ·	Director, Information Protection Group The Communications Security Establishment	